

ABSTRACT

[0081] A microdispensing apparatus comprising a jetting tube comprising an orifice at one end and an aperture at the other end, a transducer coupled with the jetting tube and adapted to apply a pressure pulse to the jetting tube in response to an electrical signal applied to the transducer such that liquid in the jetting tube is caused to pass therethrough, and means for collecting, capturing or retaining one or more compounds from liquid passing the jetting tube; a system for sampling, collecting and dispensing compounds in small volumes of liquid including the microdispensing apparatus; and methods of sampling, collecting and arraying small quantities of compounds in a liquid sample on a target.